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CHAL-0941-60

4 April 1960

MEMORANDUM FOR : Assistant to Deputy Director (Plans)
THROUGH : Chief, Technical Services Division
SUBJECT : Project [REDACTED]
REFERENCE : Memo from DDP/ASST w/attach, dtd. 1 February 1960,
to C/TSD, same subject

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1. The reference poses the question of whether or not Project [REDACTED] is worthy of this Agency's attention. It is my opinion that the overall system will not measure up to the CHALICE photo system. However, there are interesting developments in the Project [REDACTED] system and APB will maintain liaison to ascertain the worth of these developments.

2. The following information (obtained from Major Randall), with my comments, supplements that provided by PIC:

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(a) Project [REDACTED] has been transferred to ~~APLOC~~ **ARDC.**

(b) The tracker camera is being produced by Perkin-Elmer. It is expected to have a resolution of 40-50 lines/mm and weigh 60 lbs. Two are to be delivered to AF. This component, if successful, will be superior to the CHALICE tracker camera in that it will be smaller, have higher resolution, and larger film capacity.

(c) The 12" F.L. Chart and Target camera similar to CHALICE A-1 has been cancelled. This was being produced by Bulova Watch Company.

(d) The third camera of the system similar to CHALICE type "B" and "C" has three focal lengths: 60", 120" and 200". Focal length selection can be made in flight. The change in focal lengths is accomplished by the insertion and removal of optical elements into or out of the optical path in accordance with the focal length desired. This could be a source of image degradation since it will be very difficult to maintain correct optical

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alignment under the above concept. The design objectives are f5.0 - f5.6 aperture and 40-50 lines/mm resolution. It is 5' high and 70" long, weighing 1057 lbs. This is the camera which provides the photography for photo-interpretation and is lower in resolution than the CHALICE camera.



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